



LIMITED PURPOSE AQUACULTURE LICENSE (LPA) APPLICATION



This is a joint application form for (1) a limited purpose aquaculture (“LPA”) license from the Maine Department of Marine Resources (DMR) and (2) a permit for aquaculture gear from the U.S. Army Corps of Engineers (ACOE). You must have both an LPA license and Army Corps permit before you can place aquaculture gear in Maine coastal waters.

Incomplete Applications: Incomplete applications will be returned to the applicant resulting in significant delays in processing time. Do not leave any questions blank. Review each checklist carefully to make sure all required information is included. Contact Angel Wilson at (207) 624-6546 with any questions.

Fee: The Maine Department of Marine Resources requires a **non-refundable** fee of **\$50** for each LPA license application from Maine residents and **\$300** from non-residents of Maine. Make check payable to “Treasurer, State of Maine.” There is no charge for the Army Corps permit.

Black Ink Only: Please use **black ink** when completing your application. DMR sends a copy of your application to the ACOE to expedite processing time. Colored ink and pencil often become illegible when scanned and copied and can result in delays for the applicant. **Do not submit double sided pages.**

To apply for an LPA license: Complete this application form, including the required attachments. Send one copy of the application with the attachments and the license fee to the address below. MDMR will forward a copy of your application to the Army Corps of Engineers.

DEPARTMENT OF MARINE RESOURCES
ATTN: DMR Aquaculture Program
Department of Marine Resources
32 Blossom Lane
Augusta, ME 04330

APPLICATION CHECKLIST

Before submitting your application make sure you have answered all questions and included all of the following documents. ***Failure to do so may result in significant delays in processing time.***

Required documents for all LPA applications.

- Check** for application fee (\$50 or \$300) Payable to “Treasurer, State of Maine.”
- Vicinity map** with required items shown
- Overhead view** depicting layout of the gear from overhead
- Cross-section view** depicting gear & moorings from the side

Documents that are only required for sites that are within 300’ from shorefront property (measured from mean low water mark). Applications for LPA sites in marina slips, lobster pounds, and similar sites are exempt from this requirement.

- Tax map**, certified
- Riparian list**, certified
- Copies of receipts** for sending certified mail to riparian landowners

REQUIREMENTS AND RESTRICTIONS FOR LPA LICENSES

See DMR Regulation 2.90 for the full regulation

1. **License Limit:** No more than four licenses may be held by any individual at the same time.
2. **Density Limit:** There can be no more than four LPA license sites within a 1,000-ft. radius. Riparian landowners are allowed to have one LPA site within 150 feet of their shorefront property that does not count toward this limitation. LPA sites located in marina slips, lobster pounds, or similar enclosed or partially-enclosed sites that are owned or controlled by an entity which has the legal authority to restrict access to or use of the site and which has consented in writing to the placement of the gear on the site are exempt from this density standard.
3. **Assistants:** Up to three unlicensed assistants per license may be declared as helpers. An individual holding four licenses can be an assistant on up to eight additional licenses. If the license holder represents an educational institution, students are authorized to work under the direct supervision of the license holder or assistants.
4. **Intertidal Sites:** For LPA sites above the extreme low water mark (XLW) in towns with a municipal shellfish management ordinance approved by DMR, the chairperson of the municipal shellfish committee is required to sign the LPA application form to verify that the LPA will not unreasonably interfere with the activities of the shellfish program. For LPA sites above the mean low water mark (MLW), the signature of the riparian landowner of the adjacent upland is required on the application to verify that the landowner consents to the LPA activity being conducted on the owner's intertidal land.
5. **Water Quality:** Find the water quality classification of your LPA site on the web at <http://www.maine.gov/dmr/shellfish-sanitation-management/>. LPA license sites for shellfish may not be within 300 feet of any areas classified as "prohibited" and can only be located in areas that are classified as approved or conditionally approved, except for the sole culture of seed. Sites raising only shellfish seed may be located in restricted, conditionally restricted, or prohibited areas subject to relay requirements, but are prohibited in the 300:1 dilution area around a wastewater treatment plant outfall (DMR Rule Chapter 2.90(3)(D)(3)). Water quality classification restrictions do not apply for the culture of green sea urchins or marine algae, with the exception of marine algae for human consumption, which cannot be grown in the 300:1 dilution area around a wastewater treatment plant outfall.
6. **Essential Habitats:** LPA licenses may not be located within areas designated as Essential Habitat by the Maine Department of Inland Fisheries and Wildlife (MDIFW).
7. **Eagles Nests:** Bald and Golden Eagles are not protected under the Endangered Species Act but are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.) by the U.S. Fish & Wildlife Service (USFWS). As such, the USFWS recommends that all structures and activity should be limited to no closer than 660 feet of an active nest to avoid disturbing eagles under the Eagle Act. Contact Erynn Call at MDIF&W at erynn.call@maine.gov or (207) 941-4481 for questions regarding the location and status of eagle's nests.
8. **Riparian Landowners:** You are required to notify all shorefront or intertidal land owners within 300 feet of the license site by sending, via certified mail, a copy of the LPA application, including information about how riparians can submit comments to DMR regarding issuance or renewal of the license. Notification requirements apply to privately and publicly (municipal, state, or federal) owned lands.
9. **Army Corps Permit:** A permit from the U.S. Army Corps of Engineers is required prior to the placement or use of any gear in the license area. For more information about the Army Corps permit, contact the U.S. Army Corps of Engineers at the Maine Project Office, 442 Civic Center Drive, Ste. 350, Augusta, Maine 04330, or at (207) 623-8367.
10. **Renewing your LPA License:** LPA licenses expire on December 31 each year. DMR will send you a renewal form in November and an invoice for the renewal payment in early December. If these steps are not completed before December 31, your LPA will expire, your Army Corps permit will become invalid, and you will be required to remove all gear from the LPA site by December 31.

IMPORTANT INFORMATION FOR LPA LICENSEHOLDERS

Source: DMR Rule Chapter 2.90 (5) and (6)

1. **No Discharge.** See Chapter 2.90 (5)(A). The licensed activity must not generate a discharge. This means that you cannot add any foreign substances to the water, such as feed or medicine.
2. **Carry a copy of the LPA License.** See Chapter 2.90 (5)(B). You and your named assistants are the only people legally allowed to handle aquaculture gear belonging to you. You must each carry a copy of the LPA license whenever you are engaged in any activity at the LPA site. If a National Weather Service-issued hurricane warning is in effect, then others may also assist you and handle the gear.
3. **Restrictions on Harvest.** See Chapter 2.90 (5)(C)(1). Harvest of shellfish is prohibited in areas closed due to marine biotoxins or bacterial pollution. For details about closed areas, see the Department's web site at: http://www.maine.gov/dmr/rm/public_health/shellfishgrowingarea.htmshellfish-sanitation-management/ or call DMR Marine Patrol Division I at 207-633-9595 (for areas west of Port Clyde), or Division II at 207-664-2392 (for areas east of Port Clyde), or call the Shellfish Sanitation Hotline at 1-800-232-4733. LPAs do not qualify for Memorandum of Understanding agreements to allow exemptions from biotoxin closures.
4. **Record-Keeping and Annual Report.** You must maintain complete, legible, and accurate records of transport, transfer, harvest, and monitoring and keep these available for inspection for at least two (2) years; and submit to the Commissioner an annual report of these activities. The records must include the following:
 - (1) LPA acronym, site location, date
 - (2) Source of shellfish, including seed if the seed is from growing areas which are not in the approved classification status pursuant to Chapter 2.90 and/or Chapter 94;
 - (3) Dates of transplanting and harvest;
 - (4) Detailed records of sales;
 - (5) Records of the origin and health status of all seed or shellfish stocks reared on the site must also be maintained.
5. **Site Marking.** See Chapter 2.90 (6)(B). Mark your LPA site at each corner or at the center with buoys supporting letters at least 2" high spelling "Sea Farm". Each buoy must also clearly display your Site ID. Corner buoys, if any, must be distinguishable from interior markers and gear.
6. **Maintenance Standards.** See Chapter 2.90 (6)(A). All aquaculture gear must be maintained and kept in a fully operational condition. You must collect and/or remove any loose or errant gear or equipment. Storage of gear when not in use must be located in an upland location and not on the substrate or on marsh vegetation. You must be proactively ensuring that bird or mammal waste does not accumulate on gear and adversely impact water quality on or around your LPA.
7. **Contact the Coast Guard.** See Chapter 2.90 (6)(C). You must contact the U.S Coast Guard Private Aids to Navigation Office for approval of navigation marking devices according to the United States Coast Guard Private Aids to Navigation (PATON) standards. To begin the application process, go to <http://www.usharbormaster.com> and register. Send DMR a copy of any Coast Guard marking requirements.

Applicant Contact Information

Name of Applicant (must be a person)	Luke Saindon
Address	291 Federal St.
City	Wiscasset
State, Zip	ME, 04578
Telephone	(207) 266-7677
Email*	luke@worldsyouroysterco.com
Date of Birth (must be a minimum of 14 years old to apply)	Sept. 12 1990

***Note:** The email address you list here will be the primary means by which we will contact you. Please provide an email address checked regularly. If you do not use email, please leave this blank.

Assistant Information

Are you listed as an assistant on any existing LPA licenses?	<i>If yes, list the LPA Acronyms:</i> No
Do you have any other current LPA licenses?	<i>If yes, list the LPA Acronyms:</i> No
Assistants	1) Aaron Waldman 2) Monique Boutin 3) Corey Vincent

Location of License Site

Town	Harpswell
County	Cumberland
Waterbody	Quahog Bay
Additional description (e.g., south of Hog Island)	East of Snow Island along coast of Sebascodegan Island, south of Ben Island
LPA Health Zone <i>(More information on LPA Health Zones can be found on MDMR's website)</i>	LPA Health Zone 5
Is this site above mean low water (is the site intertidal)?	No
If no above, is this site above extreme low water (does the site ever drain)?	No <i>NOTE: If intertidal or above the extreme low water line, the Chair of the Municipal Shellfish Management Committee in your site town must sign this application.</i>
Purpose	<input checked="" type="checkbox"/> Commercial (product is ultimately sold) <input type="checkbox"/> Recreational (product kept for personal use, not sold) <input type="checkbox"/> Municipal Shellfish Management <input type="checkbox"/> Scientific <input type="checkbox"/> Educational

Species and Source of Stock: Check each species you intend to cultivate in the current license year. Also, list the source of stock for each. New species can be added in subsequent annual renewals. Note: Any seed that does not come directly from an approved hatchery is considered “wild” seed and must come from within the LPA License Health Area in which your license is located. If seed or stock is to be acquired from outside of your LPA Health Area you must obtain a transfer permit from DMR. * Clams may only be sourced from an approved hatchery.

Check Here	Species	Source of Stock (Name, Address, Phone)	Approved Hatchery	“Wild”, Same LPA Health Area	“Wild”, Different LPA Health Area (Transfer Permit Required) *
<input type="checkbox"/>	Blue mussel (<i>Mytilus edulis</i>)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Hard clam/quahog (<i>Mercenaria mercenaria</i>)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Soft-shelled clam (<i>Mya arenaria</i>)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	American or eastern oyster (<i>Crassostrea virginica</i>)	Muscongus Bay Aquaculture and Basket Island Oysters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	European oyster (<i>Ostrea edulis</i>)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Sea scallop (<i>Placopecten magellanicus</i>) (Adductor muscle only for harvest)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Green sea urchin (<i>Strongylocentrotus droebachiensis</i>)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Bay scallop (<i>Aequipecten irradians</i>) (Adductor mussel only for harvest)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Marine algae (all seaweeds, including kelp)	<i>List each individual marine algae species and sources of stock here:</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

***If your source of stock is not from an approved hatchery and is outside of your LPA Health Zone, please contact Marcy Nelson at DMR for a transfer permit prior to placing anything on your LPA site. Marcy.Nelson@Maine.gov or 207-441-4681.**

Do you intend to possess, transport, or sell whole or roe-on scallops? Yes No

If you answered "yes" please contact the Bureau of Public Health at DMRPublicHealthDiv@maine.gov to discuss your plans.

Water Quality Information

Growing Area Designation (e.g. WA(A) or WA(P1))	WK(B) Approved
If you are applying in a prohibited area, site can be utilized for seed only per DMR Rule 2.90(3)(d)(3).	Please check box to indicate understanding and agreement: <input checked="" type="checkbox"/>

Water Quality Information can be found here:

<http://www.maine.gov/dmr/shellfish-sanitation-management/closures/pollution.html>

Coordinates

Enter geodetic coordinates for the center point of the license site below. Please enter your coordinates in one of the following three formats:

- 1) Degrees, Minutes, Seconds (43° 12' 34.56" N, 69 12' 34.56" W)
- 2) Degrees, Minutes (43° 12.34' N, 69° 12.34' W)
- 3) Decimal Degrees (43.123456 N, -69.123456 W) (Preferred format)

Latitude	43.814570	W
Longitude	-69.901660	N

Site Characteristics

Describe the surrounding uplands (<i>i.e. forested, residential, farmland, commercial</i>):
The nearest shore is to the east, mainland Harpswell, steep rocky/mud shoreline with mature trees. Land is in treegrowth management. To the west about 1000' are a series of ledges and low scrubby islands and shoals.
Describe the bottom characteristics (<i>description of substrate including flora and fauna</i>):
Predominantly mud with occasional rocky outcroppings. Typical shallow water species inhabit the area including small fin fish, crab, and rockweed. Lobsters are present particularly in the spring and fall
Describe the bottom characteristics (<i>description of substrate including flora and fauna</i>):
Depth
Depth at mean low water in feet: <u>8'</u>
Depth at mean high water in feet: <u>17.2'</u>
Is your site located within an Essential Habitat by the Maine Department of Inland Fisheries and Wildlife (MDIFW) Essential Habitat?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Eelgrass: Are there eelgrass beds on or near the site? If none, write "None." If so, where? How far are they from the site?
None observed, and none shown on Maine DMR Historical Eelgrass Coverage Viewer
When were these eelgrass observations made? Month and Year:
April 2021

Existing Uses: Describe, in detail, all current uses of the waters on and around the proposed license site. *Including the type, frequency, season, duration, and amount of activity.*

Commercial Fishing
Some lobstering present, mostly in spring for shedders and then again in fall. Some wild oyster harvesting. Snow Island Oyster has a lease to the west near Snow Island.
Recreational Fishing
Some recreational fishing may occur nearby in the summer, particularly from anchored yachts.
Boating Activities
Quahog bay is a frequently used summer anchorage for summer pleasure boats. Proposed site is near shore and ledges to limit interference with this activity.
Other uses (kayaking, swimming, etc.)
Some stand up paddle boarding and kayaking may occur from nearby island campers.

Harbormasters Initials indicating the "existing uses" information is correct: _____

VICINITY MAP

Attach a vicinity map showing the LPA site and surrounding area. An enlargement of a NOAA chart or USGS Topographic map is suggested to provide this information. On the map, show the following:

- Location of proposed site
- 300' radius circle around site
- 1,000' radius circle around site
- North Arrow (indicate true or magnetic north)
- Show depth contours and indicate mean low water (MLW) and mean high water (MHW) on all land adjacent or nearest the site.
- Ebb and Flood directions
- Scale used on plan
- Distance to DMR water quality closure lines
- **Gear orientation MUST be shown**

Label the location on your vicinity map, and check each of the following below, that are within 1,000 feet of the site. For each that applies, also indicate how your proposed site would impact each. If additional space is needed add an additional page.

Federal navigation projects or anchorages

Navigational channels

Structures

Aquaculture leases or licenses (LPAs)

Anchorages or moorings

There appears to be a potential mooring about 1000' to the S at 43.811324, -69.904613. Minimal to no impact is expected as it's on the other side of some ledges

State or federal beaches

Docking Facilities

There is a private dock about 850' to the northeast at 43.816371, -69.899706. Dock is across small cove, minimal impact is expected

None of the above

GEAR DESCRIPTION

No Gear (bottom culture only): Organisms will be cultured on the bottom with no gear or predator netting.

Upweller: Floating upweller system for spat growout.

Shellfish rafts, associated predator nets and spat collectors: Floating raft with suspended dropper lines and anti-predator netting typical of mussel culture. E.g. mussel raft.

Shellfish tray racks and over wintering cages: Box shaped cages made of rigid mesh (wire coated or plastic), often with interior shelves designed to hold soft mesh bags. Tray racks are often outfitted with floats that double as feet to hold the cages off the bottom. E.g. OysterGro and OysterRanch cages.

Soft bags, semi rigid bags, and/or floating trays: Single-layer soft mesh bags that are typically made of rigid plastic or wire mesh. Bags are most frequently floated on the surface in lines, placed inside tray racks/overwintering cages, or sunk to the bottom.

Lantern nets and/or pearl nets: A lantern net is a five or ten tier set of circular nets suspended from a central line. A pearl net is a single, pyramidal mesh enclosure.

Fencing and brushing: Gear used in the intertidal zone for collection of soft shell clam spat.

Scallop spat collector bags: Mesh bags containing additional material (e.g. smaller mesh, Brillo pads) to increase surface area. Multiple bags are typically attached to a single vertical line.

Scallop ear hangers: Horizontal or vertical lines that attach to individual scallops by ear hangers.

Marine algae gear: Gear typically used may include rope, rafts with ropes attached, bags, longlines, and or rope grids.

Bottom anti-predator netting: Netting that is spread over the bottom to exclude predators from species being cultured.

Check each gear category that you are seeking authorization for.

- No Gear (bottom culture only)
- Upweller
- Shellfish rafts, associated predator nets and spat collectors
- Shellfish tray racks and over wintering cages
- Soft bags, semi rigid bags, and/or floating trays
- Lantern nets and/or pearl nets
- Fencing and brushing
- Scallop spat collector bags
- Scallop ear hangers
- Marine algae
- Bottom anti-predator netting

LIST EACH INDIVIDUAL GEAR TYPE THAT YOU WILL USE IN THE TABLE BELOW

Specific Gear Type and Maximum Number to be used <i>(e.g. (20) soft mesh bags)</i>	Dimensions <i>(e.g. 16"x20"x2")</i>	Dates that gear will be in the water
400 suspended Hexcyl System Cages of varying mesh size	29"x5.4375"x10.625"	Year Round
2 Floating Support Rafts, painted or galvanized steel with Eagle HDPE dock floats	8'x50' (400 ft ²) Grow area 12'x64' Footprint with raft floats	Year Round

Outer dimensions of maximum gear layout:
Note: Gear, excluding mooring equipment, may not exceed 400 square feet and must be provided in whole feet.

Width (1' or more): 8' Length (1' or more): 50'

Describe the moorings/tackle to be used inclusive of mooring type, bottom tackle, line, etc.

Helix anchors will be used where possible, otherwise 300 lbm concrete pyramid anchors will be used 20' of 1/2" bottom chain will run to 3/4" nylon line for a total of 40' (2.5 scope at MHW). A total of 6 mooring blocks will be used. Two on each end (crossed) and two stabilizing the middle of the raft.

Will there be seasonal changes to your gear deployment? If yes, describe.
(i.e. will your cages be sunk during the winter months, will your longlines be removed in the summer, etc)

No. The exact number of Hexcyl cages layered will vary, but the same configuration on footprint will remain year round.

REQUIRED SIGNATURES

Harbormaster or Town Official Signature

I have reviewed this license application and find that this activity, as proposed, will not unreasonably interfere with navigation, the ingress and egress of riparians within 300' of the license site, or fishing or other uses of the area.

Print Name, Town, Title: _____

Date: _____

Signature of Harbormaster or Town Official _____

*Note: Harbormasters may attach an additional page outlining any conditions associated with their approval of this license.
*DMR Rule Chapter 2.90 (2) (D) (2) – In municipalities not served by a harbormaster, a municipal officer (selectman, councilor, alderman, or mayor, see 30-A MRS §2001 (10)) or other **elected** municipal official may sign the application. For the unorganized territory where a harbormaster does not have jurisdiction, a marine patrol officer may sign.*

OTHER SIGNATURES REQUIRED AS NOTED BELOW

Marina or Pound Owner

(For sites in marina slips, lobster pounds, and similar areas - see DMR Rule Chapter 2.90 2 (E)(1))

I, _____ (print name), am the owner or the authorized representative of the owner or entity that has the legal authority to restrict access to or use of the marina slip, lobster pound, or similar area where this LPA license site is located, as described in DMR Rule Chapter 2.90 (1) (B). I consent to the placement of aquaculture gear on this site as proposed in this application.

Signed: _____ Date: _____

Riparian Landowner of Intertidal Zone:

(For sites above mean low water, MLW – see DMR Rule Chapter 2.90 (2)(D)(3)(b))

I, _____ (print name), am the riparian owner of the upland and adjacent intertidal land where this LPA license site is located. I consent to the placement of aquaculture gear on this site as proposed in this application.

Signed: _____ Date: _____

Shellfish Committee Chair

(For sites above extreme low water, XLW see DMR Rule chapter 2.90(2)(D)(3)(a). Only required in municipalities with an established Municipal Shellfish Committee)

I, _____ (print name), am the chairperson of the Municipal Shellfish Management Committee for the Town of _____. This LPA license site is located above the extreme low water mark. My signature below verifies that this LPA will not unreasonably interfere with the activities of the municipal shellfish management program, according to DMR Rule Chapter 2.90 (3) (a).

Signed: _____ Date: _____

Riparian Notification

Is there shorefront land (including land above MLW and state and federal owned land) within 300 feet of the proposed license site?

Yes No

If yes, you are required to send a copy of your application to all riparian property owners whose property is within 300 feet of the proposed license site following the directions below. If there is no shorefront land within 300 feet, you may skip this section. Applications for LPA sites in marina slips, lobster pounds, and similar sites are exempt from this requirement.

INSTRUCTIONS FOR NOTIFICATION TO RIPARIAN LANDOWNERS

Step 1, Tax Map: Obtain a certified copy of the municipal tax map showing the land in the vicinity of the lease site. On the map, **mark** the center point of the LPA site. If there is an accurate scale on the map, **draw** a 300-foot radius around the site. **ATTACH THE MAP TO YOUR APPLICATION**

NOTE FOR LPAs PROPOSED IN UNORGANIZED TERRITORY: To obtain a list of shorefront properties for LPAs in Unorganized Territory, contact Lisa Whynot, Property Appraiser II, Unorganized Territory, 24 State House Station, Augusta, Maine, 04333.

Step 2, Riparian Owners List: On the “Certified Riparian List” (Page 17 below), list the names and current mailing addresses of all riparian landowners of shorefront land within 300 feet of the lease site as shown in the municipal tax records. **Have the list certified by the municipal clerk or tax collector. ATTACH THIS LIST TO YOUR APPLICATION**

Step 3, Notify Riparians: **Send** a copy of the completed application, including the page of this application titled “Notice to Riparian Landowners” (Page 16 below), via **certified mail** to all the riparian landowners on the list. Note: Name and address must be filled out on receipt(s). **ATTACH THE ORIGINAL (OR COPIES) OF THE RECEIPTS TO YOUR APPLICATION**

[THIS SECTION INTENTIONALLY BLANK]

NOTICE TO RIPARIAN LANDOWNERS

You have received a copy of an application to the Maine Department of Marine Resources for a limited-purpose aquaculture (LPA) license to grow shellfish or marine algae (seaweed) in an area of Maine coastal waters covering no more than 400 square feet. DMR rules require the applicant to send a copy of the application to owners of shorefront land that is located within 300 ft. of the proposed license site.

This is a very small-scale aquaculture project. The town harbormaster or other official is required to sign the application form to certify that the project will not unreasonably interfere with navigation, fishing or other uses, or the ingress and egress of riparian landowners.

Please contact DMR at the address below within the next two weeks if you have comments or concerns about the impact of the proposed license on your ability to move to and from your shore by water.

Should the license be granted, please contact us if you have concerns about the operation of the license site at any time. You should feel free to contact the licensee with any concerns, as well; the contact information is listed on the first page of the application form.

LPA licenses are issued for the calendar year; they expire on December 31, and they can be renewed at that time for the following year. If the licensee applies to renew this license in future, DMR will notify the municipality and request it to post the notice of the renewal application at the town office. Riparian landowners may submit comments to DMR about the proposed renewal within 14 days of the date of the notice.

DMR will consider all comments received in the course of the renewal process, as well as any comments received during the course of the previous year of operations under the license, in determining whether the license should be renewed for an additional year.

To submit comments to the Department about this LPA license site at any time, please contact:

DMR Aquaculture Program
Department of Marine Resources
32 Blossom Lane
Augusta, ME 04332
dmraqaquaculture@maine.gov

RIPARIAN OWNERS LIST

For LPA applications

THIS LIST MUST BE
*****CERTIFIED*****

On this list, please show the current owners' names and mailing addresses for all shorefront parcels within 300 feet of the proposed license site along with the map and lot number for each parcel. It is the applicant's responsibility to assemble the information for the Town Clerk to certify. The Town Clerk only certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification form below. If the parcels are within more than one municipality, provide a separate, certified, riparian list for each municipality.

TOWN OF: Click or tap here to enter text.

MAP ##	LOT #	Landowner name(s) and address(es)
58	1	BURBANK JAMES A II & MARYBETH K 11 CUMBERLAND STREET BRUNSWICK, ME 04011

CERTIFICATION

I, _____, Town Clerk for the Town of _____, certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: _____ **DATE:** _____

SEAL:

APPLICANT'S SIGNATURE

I declare that the information I have provided on this form is true and correct and that I will comply with all applicable DMR laws and rules. I understand that, under Title 12 MRS §6306, my signature on this application authorizes Marine Patrol officers to inspect my license site. I understand that my license can be revoked if I provided false information in my application.



Signature of Applicant

April 9, 2021

Date

Note: When the applicant is a municipal shellfish management committee, the committee chair shall sign the application (C.2.90 (2) (D) (1)).

Before submitting your application make sure you have answered all questions and included all of the following documents. *Failure to do so may result in significant delays in processing time.*

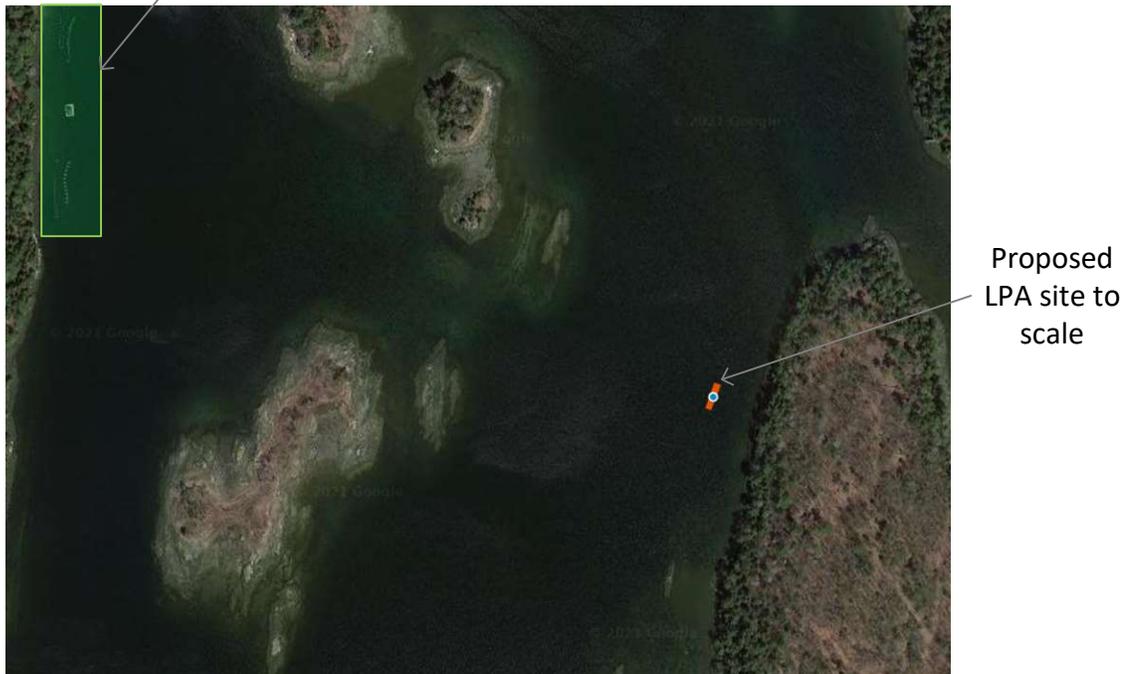
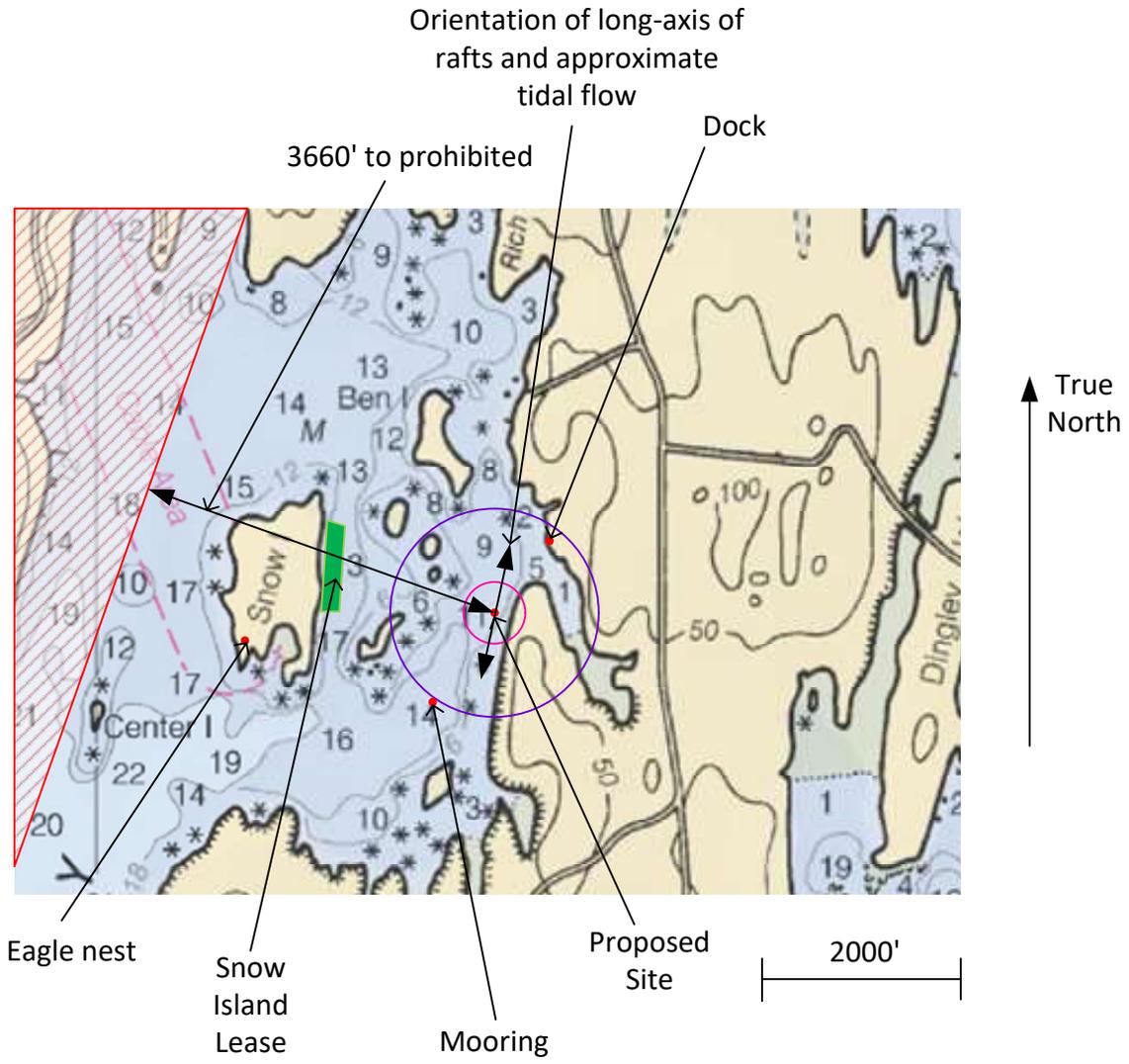
Required documents for all LPA applications.

- Check** for application fee (\$50 or \$300) Payable to "Treasurer, State of Maine."
- Vicinity map** with required items shown
- Overhead view** depicting layout of the gear from overhead
- Cross-section view** depicting gear & moorings from the side

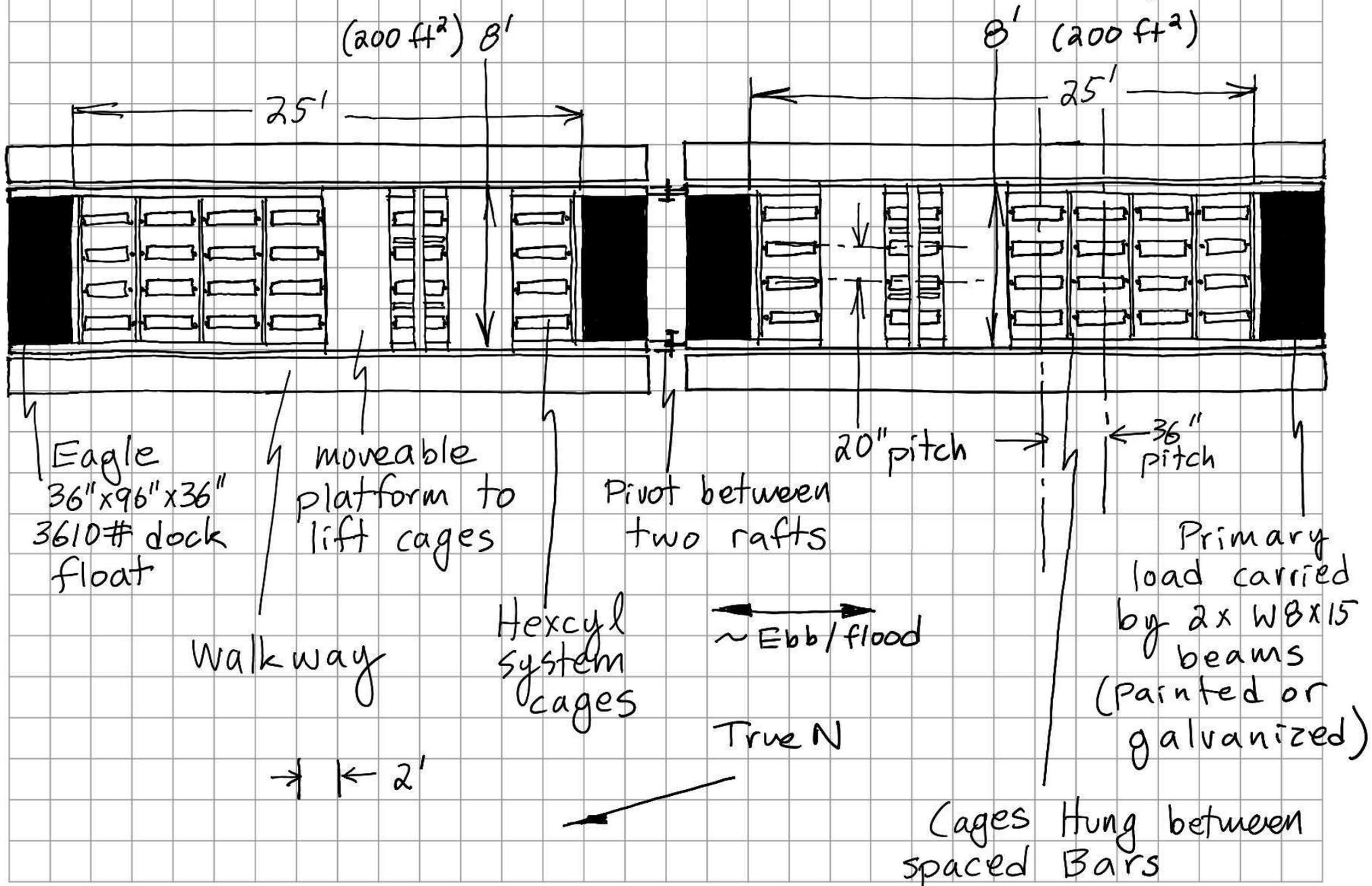
Documents that are only required for sites that are within 300' from shorefront property (measured from mean low water mark). Applications for LPA sites in marina slips, lobster pounds, and similar sites are exempt from this requirement.

- Tax map**, certified
- Riparian list**, certified
- Copies of receipts** for sending certified mail to riparian landowners

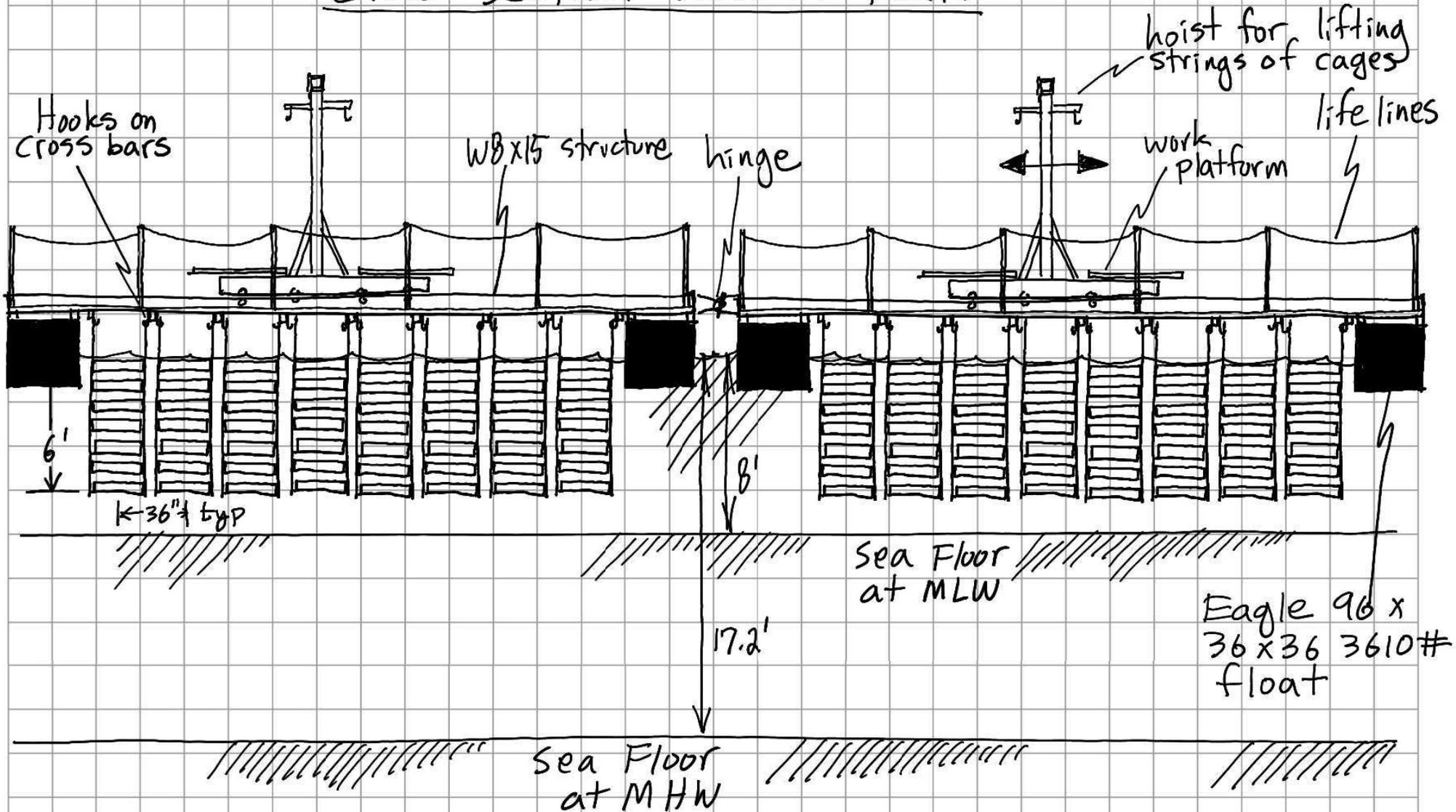
Vicinity Map



Overhead View of Raft for Suspended Cages

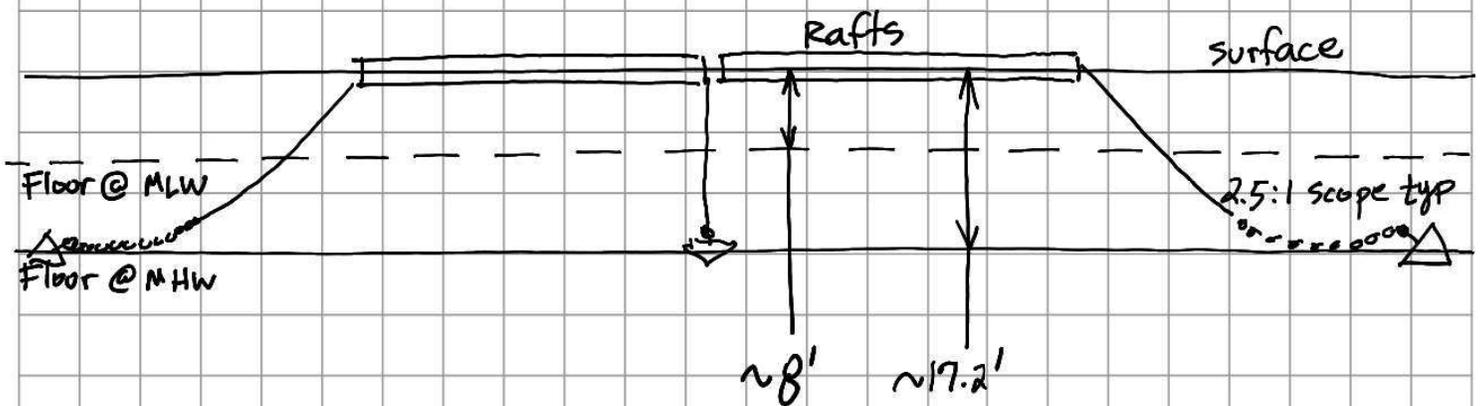
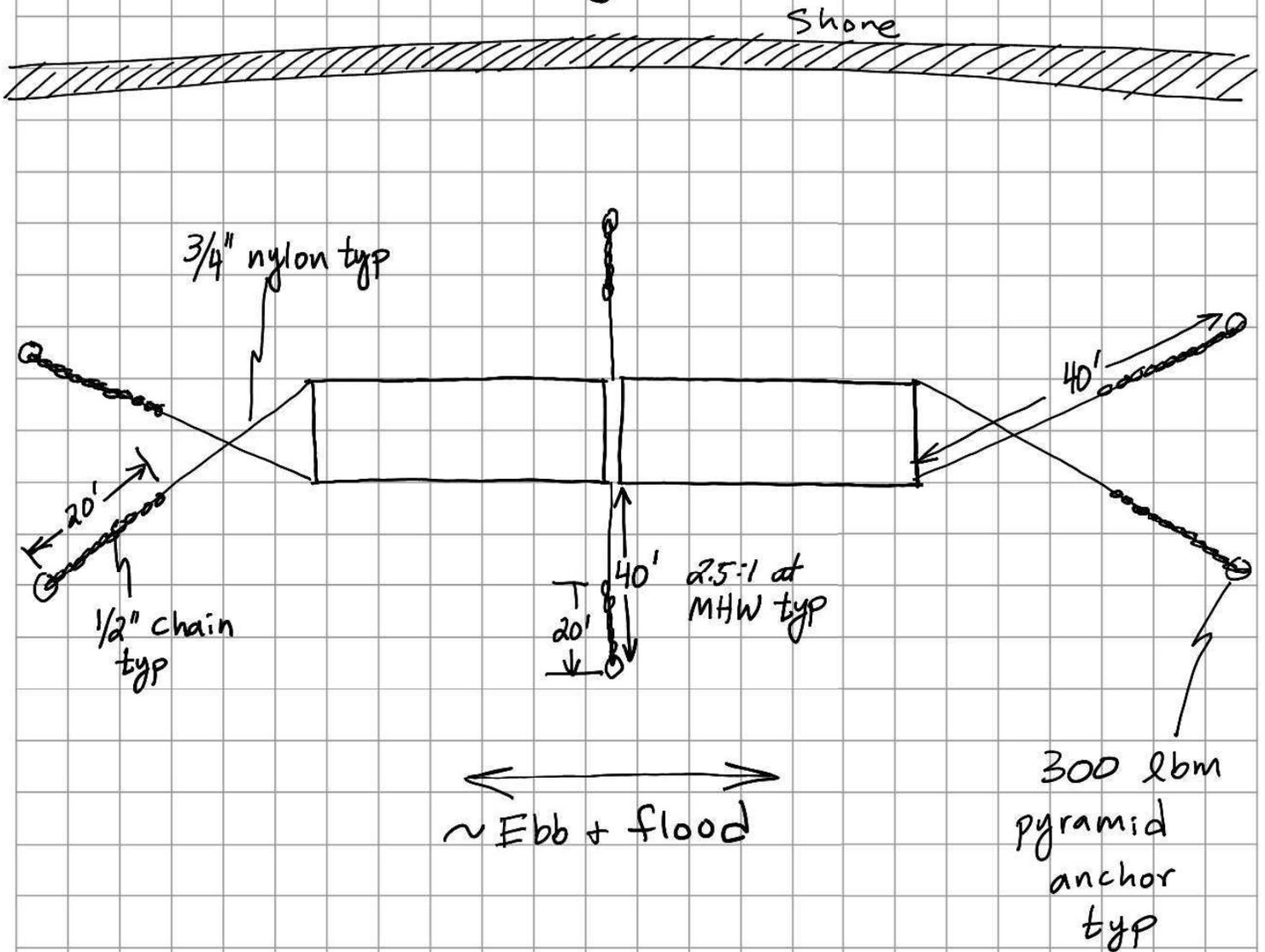


Cross Section View of Raft

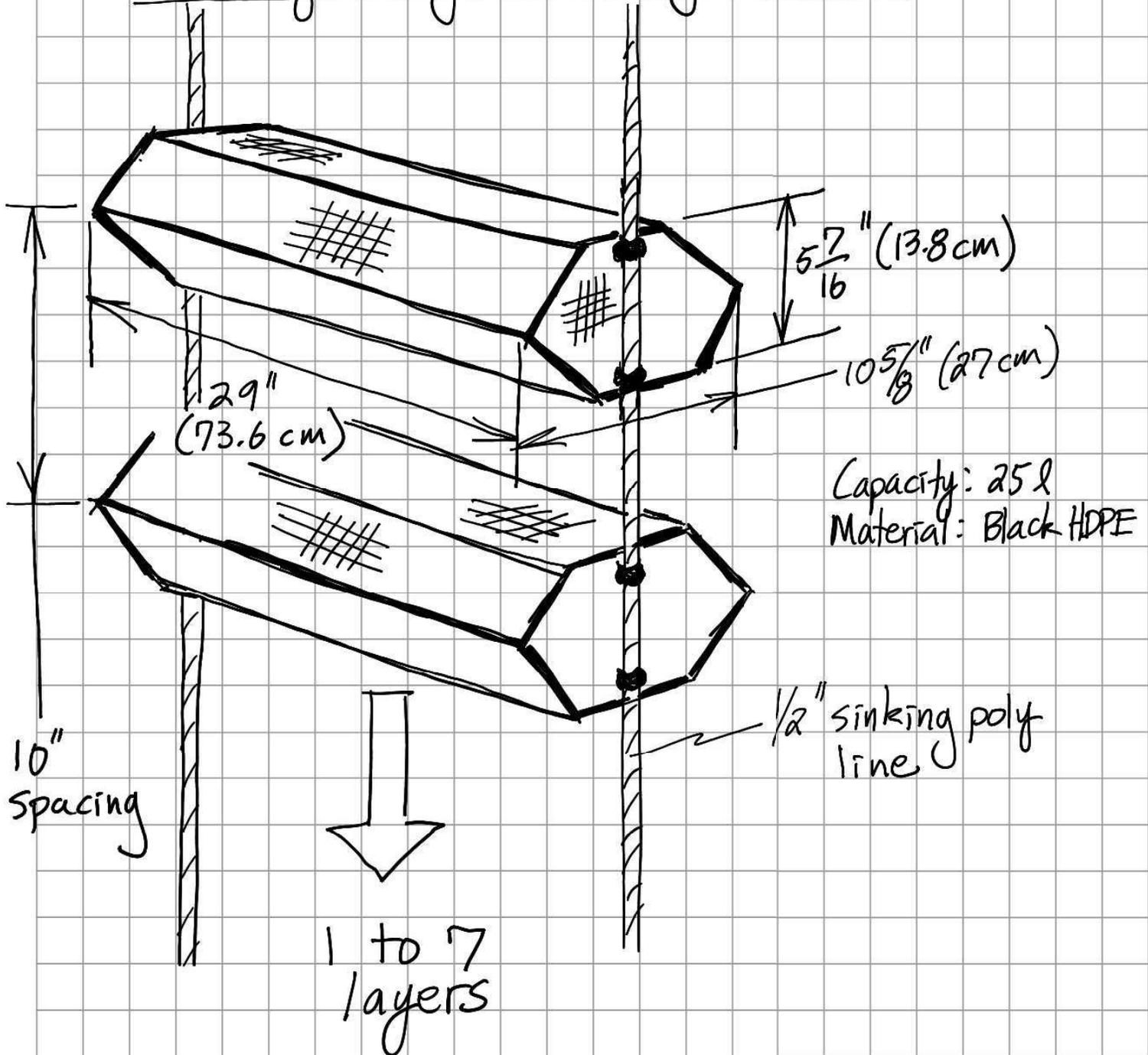


* 400 Hexcyl Cages MAX
depending on number of vertical
layers used at any time

Raft Mooring System



Hexcyl System Cages Used

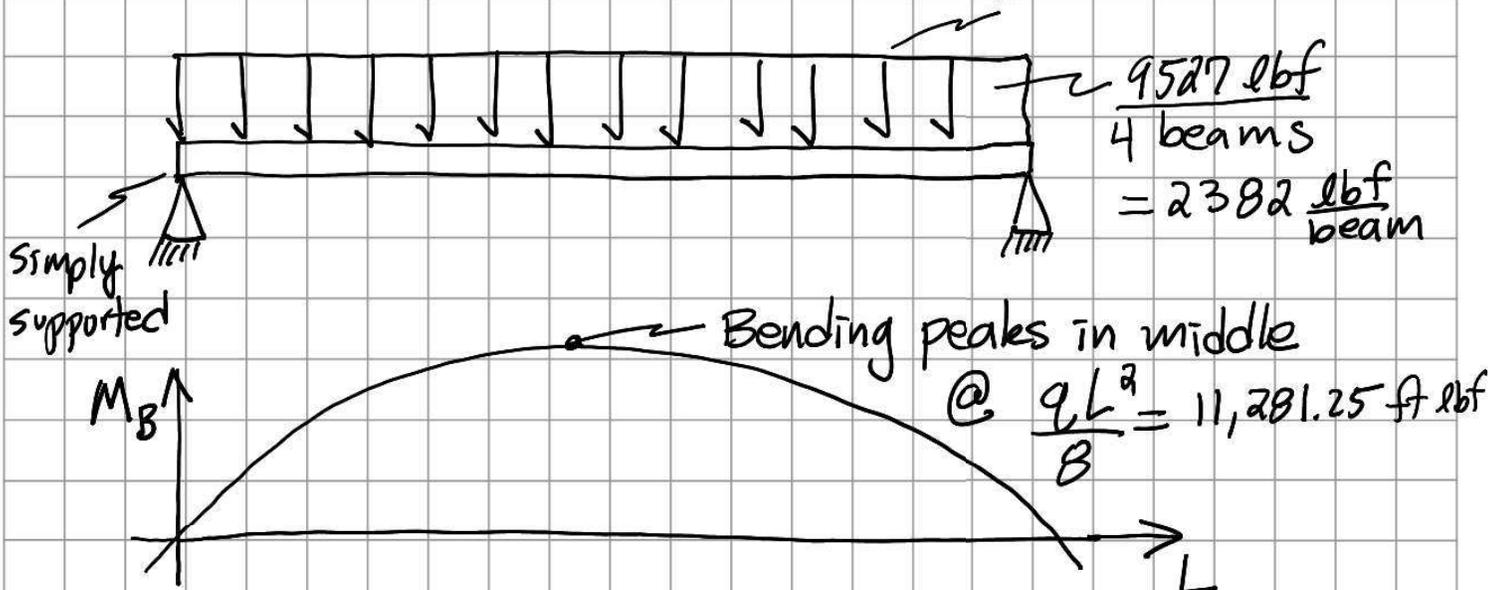


Note on buoyancy:

With 400 cages each filled with 150 mature oysters works out to be $\sim 9,527$ lbm (when submerged in water the effective weight will only be $\sim 3,135$ lbm). Each Eagle 96x36x36 float is rated for 3,610 lbf of flotation. Four floats would provide 14,440 lbf, leaving 4,913 lbm available for raft structure.

Notes on Raft Structural Integrity

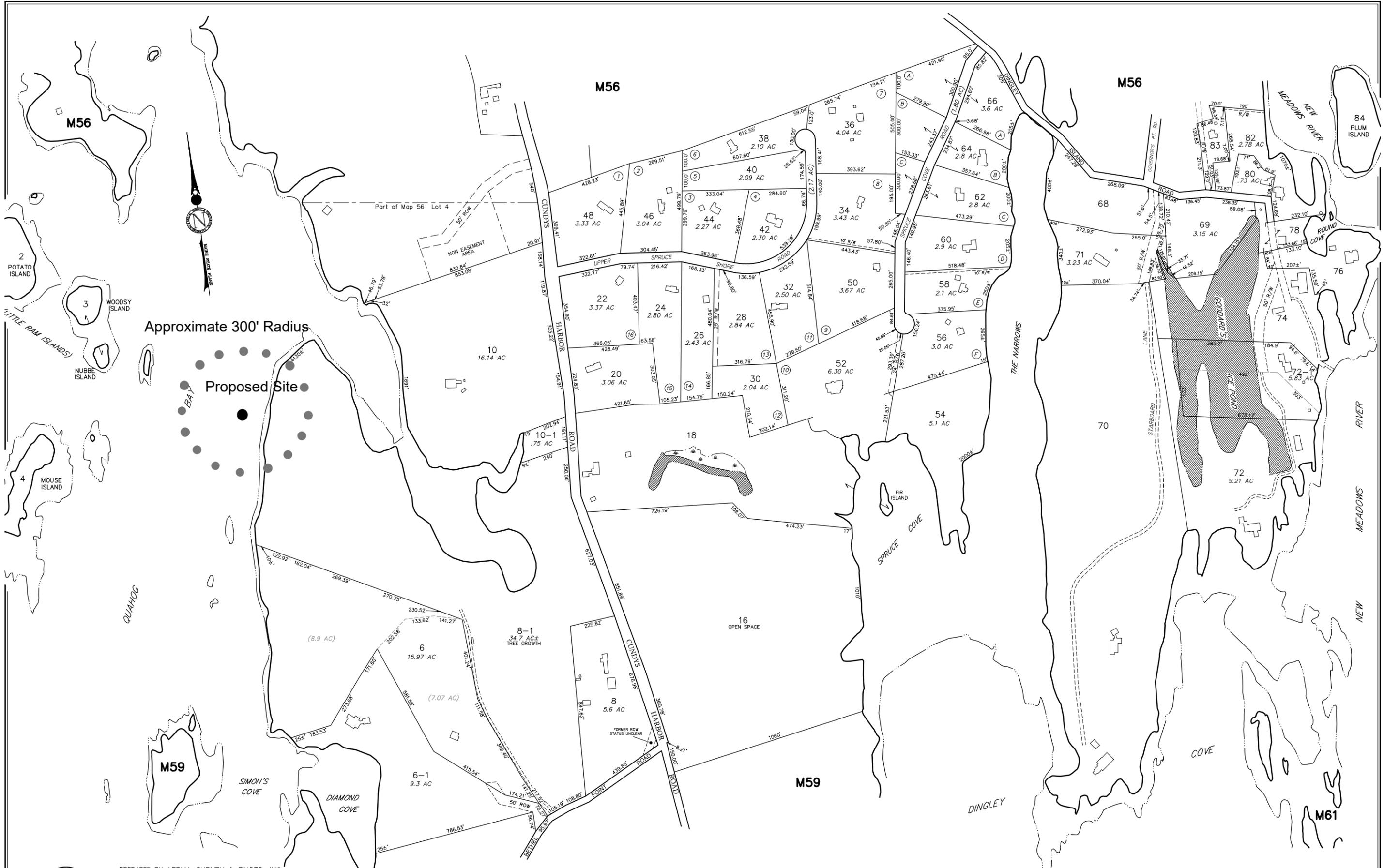
Four WBx15 wide flange beams will support the worst case 9,527 lbf load.



$$\text{Section Modulus Req} = FOS \times \frac{M_{\text{Bending}}}{\sigma_{\text{yield}}}$$

$$S = 4 \times \frac{11,281.25 \text{ ft lbf}}{50,000 \text{ psi}} = 10.83 \text{ in}^4$$

A WBx15 beam has a section modulus of 11.8 in⁴ so it will support a worst case load of all oysters being on deck while maintaining a factor of safety of 4 and a deflection of under 1" in the mid-span.



Approximate 300' Radius

Proposed Site

PREPARED BY: AERIAL SURVEY & PHOTO, INC.
 AIRPORT ROAD, NORRIDGEWOCK, MAINE
 (207) 634-2006
 BASED ON PHOTOGRAPHY DATED: 05-07-96
 NOTE: The data on this map have been compiled from a variety of sources, granted voluntarily by private owner and official sources and are not to be considered legal locations of property boundary lines. The Town of Harpswell assumes no responsibility for the accuracy of individual parcels. For assessment purposes only. Not to be used for conveyances or legal descriptions.

LEGEND: PARCEL NUMBER	388	PARCEL AREA	20,000 SF OR 7,000 AC
SURVEY OR DEED DIMENSION.....	161.21'	SUBDIVISION LOT NO.	(9)
BUILDING		SHORELINE (HIGH TIDE).....	
MATCH LINE		ADJACENT MAP	
STATE HIGHWAY / TOWN ROAD / PRIVATE WAY			



PROPERTY MAP
 TOWN OF HARPSWELL
 CUMBERLAND COUNTY, MAINE
 SCALE: 1"=200' APRIL 1, 2020